PATENT COOPERATION TREATY PCT

INTERNATIONALSEARCHREPORT

(PCT Article 18 and Rules 43 and 44)

FOR FURTHER

Applicant's or agent's file reference



see Form PCT/ISA/220

665095	ACTION as well as, where applicable,		l as, where applicable, item 5 below.	
Internationa	application No.	International filing date(day	/month/year)	(Earliest) Priority Date (day/month/year)
PCT/J	P2005/006581	29.03.20	05	22.04.2004
Applicant MATSU:	SHITA ELECTRI	C WORKS, LTD.		J
<u> </u>				
3	tional search report has been p 8. A copy is being transmitted		carching Authori	ity and is transmitted to the applicant according
This interna	ational scarch report consists of	fatotal of 4 sheet	. 5.	
Г	It is also accompanied by a co	py of each prior art document	cited in this repo	ort.
a. Wi	nguage in which it was filed, u	nless otherwise indicated under n was carried out on the basis	er this item.	e basis of the international application in the
ъ. Г	With regard to any nucleotic	de and/or amino acid seque	nce disclosed in	the international application, see Box No. I.
2.	Certain claims were found	unsearchable (See Box II).		
3. ▼	Unity of invention is lacking	g (See Box III).		
4. With n	egard to the fille,			
□ □	the text is approved as sub	mitted by the applicant.		
	the text has been established	ed by this Authority to read	as follows:	
5. With reg	ard to the abstract,			
ু ন	the text is approved as submi	itted by the applicant.		
				ty as it appears in Box No. IV. The applicant ch report, submit comments to this Authority.
6. With re	gard to the drawings,			
a. the fig	ure of the drawings to be p	ublished with the abstract i	s Figure No	I.A.
	as suggested by the ap	•		
		hority, because the applicant		
	•	hority, because this figure het	ter characterizes	the invention.
b. 1	none of the figures is to be p	ublished with the abstract.		

INTERNATIONALSEARCHREPORT

International application No.
PCT/JP2005/006581

Box No. Il	Observations where certain claims were found unsearchable (Continuation of item 2 of first sneet)
This internati	onal search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
	tims Nos.: cause they relate to subject matter not required to be searched by this Authority, namely:
bec	tims Nos.: cause they relate to parts of the international application that do not comply with the prescribed requirements to such an cent that no meaningful international search can be carried out, specifically:
	tims Nos.: cause they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box No. III	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
The control of the results of the re	tional Searching Authority found multiple inventions in this international application, as follows: common technical feature of claims 1-18 is described in JP 188296 A(MITSUBISHI ELECTRONIC), 2003.07.04 and does not have Ey. emaining claims 2-18 are not so linked as to form a single general tive concept for the following reasons:
Claim Claim	n 2 is concerned with material of members. n 3 is concerned with hermetic sealing. ns 4-6,15-17 are concerned with electrical connections. ns 7-14,18 are concerned with the location of IC.
	all required additional search fees were timely paid by the applicant, this international search report covers all searchable ims.
	all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of additional fee.
	only some of the required additional search fees were timely paid by the applicant, this international search report covers by those claims for which fees were paid, specifically claims Nos.:
	required additional search fees were timely paid by the applicant. Consequently, this international search report is tricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on	Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

INTERNATIONALSEARCHREPORT

International application No. PCT/JP2005/006581

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl 7 HOIL23/06, GOIP9/04, HOIL23/02, 29/84

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.CL HOLL23/06, G01P9/04, H01L23/02, 29/84

Documentation searched other than minimum documentation to the excent that such documents are included in the fields searched

Published examined utility model applications of Japan 1922-1996 Published unexamined utility model applications of Japan 1971-2005 Registered utility model specifications of Japan 1996-2005 Published registered utility model applications of Japan 1996-2005

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
Х	JP 2003-188296 A(MITSUBISHI ELECTRONIC), 2003.07.04, [0017]-[0019], Fig.2	1-3,9,10, 12-14,18	
Y	& US 2003/0113982 A1	4-8,11,16,17	
Υ	UP 5-223842 A(HITACHI LTD.), 1993.09.03, [0037]-[0040], Fig.9(No Family)	4,5,15,16	
Y	JP 2001-144117 A(TEXAS INSTRUMENTS),2001.05.25, [0011]-[0013], Fig.1 & US 2002/0179986 A1	6,17	
Y	JP 8-32090 A(MITSUBISHI ELECTRONIC),1996.02.02, [0077]-[0078], Fig.3(No Family)	7,8	
Y	JP 8-78601 A(SANYO ELECTRIC), 1996.03.22, [0013]-[0015], Fig.1,2(No Family)	11	

	1 (00 20) (00 20) / 125 2/2/				
P	Further documents are listed in the continuation of Box \boldsymbol{C} .	Г	See patent family annex.		
* "A" "E"	Special categories of cited documents: document defining the general state of the art which is not considered to be of particular relevance cartier application or patent but published on or after the inter- national filing date		later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an		
"L" "O" "P"	 "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means 		"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.		
Date	e of the actual completion of the international search	Dat	e of mailing of the international search report 12.07.2005		
Name and mailing address of the ISA/JP Japan Patent Office		Aut	horized officer Kenichiro Hashimoto 4R 3031		

Telephone No. +81-3-3581-1101 Ext. 3471

3-4-3, Kasumigaseki, Chiyoda-ku, Tokyo 100-8915, Japan

INTERNATIONALSEARCHREPORT

International application No. PCT/JP2005/006581

C (Continuat			Dalaman 1 1 2
Category*	Citation of document, with indication, where appropriate, of the relev	ant passages	Relevant to claim No. 1-4,8,15
PΧ	JP 2004-209585 A(SHINKO ELECTRIC),200 [0055]-[0057], Fig.3 & EP 1433742 A2	4.07.29,	